

10/596,589-300388-EIC SEARCH

SEARCH

=> d his 160

(FILE 'HCAPLUS' ENTERED AT 15:10:04 ON 02 JUL 2009)

L60 13 S L59 AND L14
SAV TEMP L60 FAN589HCP/A

=> d que stat 160

L4 4405 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON 3859.1/RID
L8 661 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L4 AND
?AMIN?/CNS
L9 1824 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L4
L10 QUE SPE=ON ABB=ON PLU=ON CVD OR (CHEMICAL? OR CHEM)
(2A) (VAPOR? OR VAPOUR?) (2A) DEPOSIT? OR OMCVD OR MOCVD O
R LPCVD OR PECVD OR HFCVD OR ULPCVD OR PACVD OR PCVD
L11 119 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L9 AND L10
L12 QUE SPE=ON ABB=ON PLU=ON FILM? OR THINFILM? OR LAYE
R? OR OVERLAY? OR OVERLAID? OR LAMIN? OR LAMEL? OR MULT
ILAYER? OR SHEET? OR LEAF? OR FOIL? OR COAT? OR TOPCOAT
? OR OVERCOAT? OR VENEER? OR SHEATH? OR COVER? OR ENVEL
OP? OR ENCASE? OR ENWRAP? OR OVERSPREAD? OR ENCAPSUL?
L13 105 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L11 AND L12
L14 244 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L8
L15 20 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L13 AND L14
L17 105890 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON "VAPOR
DEPOSITION PROCESS"/CT
L18 79 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L9 AND L17
L20 543 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L9 AND L12
L22 14 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L14 AND L18
L23 QUE SPE=ON ABB=ON PLU=ON INHIBIT? OR HINDER? OR IMP
ED? OR ARREST? OR REDUC? OR REDN# OR RESIST? OR SUPPRE
SS? OR RETARD? OR PROHIBIT? OR PREVENT? OR BLOCK? OR EL
IMINAT? OR LESS? OR ABAT? OR DEPRESS? OR DIMINISH? OR C
URTAIL? OR ABSEN? OR REMOV? OR REPELL? OR INACTIVAT?
L24 389405 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON (HEAT OR
THERM?) (3A) L23
L25 5 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L14 AND L24
L26 2 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L25 AND L18
L27 37 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L20 AND L24
L28 97969 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON PYROLYSIS?
L29 140 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L9 AND (L10
OR L17)
L30 124 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L29 AND L12
L31 13 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L30 AND L24
L32 27 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L8 AND (L10
OR L17)
L33 25 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L32 AND L12
L34 2 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L33 AND L24
L35 1 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L33 AND L28
L36 39 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L15 OR L22 OR
(L25 OR L26) OR L31 OR L34 OR L35
L37 62 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L27 OR (L31
OR L32 OR L33 OR L34 OR L35)
L38 62 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L37 OR L36
L39 8 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L38 AND L28
L40 62 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L38 OR L39
L41 QUE SPE=ON ABB=ON PLU=ON PY=<2003 NOT P/DT
L42 QUE SPE=ON ABB=ON PLU=ON (PY=<2003 OR PRY=<2003 OR
AY=<2003 OR MY=<2003 OR REVIEW/DT) AND P/DT
L43 42 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L40 AND (L41
OR L42)
L44 47 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON POLYPARAXYLYL?
OR POLY(A) PARAXYLYL?
L45 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON PARYLENE/CN
L46 90 SEA FILE=REGISTRY POLYLINK L45

10/596,589-300388-EIC SEARCH

L47	2	SEA FILE=REGISTRY	SPE=ON	ABB=ON	PLU=ON	("PARACYCLOPH
						ANE HOMOPOLYMER"/CN OR PARACYCLOPHANES/CN)
L48	91	SEA FILE=REGISTRY	SPE=ON	ABB=ON	PLU=ON	(L45 OR L46
						OR L47)
L49	91	SEA FILE=REGISTRY	SPE=ON	ABB=ON	PLU=ON	(L45 OR L46
						OR L47 OR L48)
L50	6693	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L49
L51	552	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L50 AND (L10
						OR L17)
L52	513	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L51 AND L12
L53	9	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L52 AND L24
L54	17	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L52 AND L28
L55	25	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L53 OR L54
L56	5	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L55 AND (L42
						OR L42)
L57	1	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L44 AND (L10
						OR L17) AND L12 AND (L24 OR L28)
L58	45	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L43 OR L57 OR
						L56
L59	45	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L58 AND (L41
						OR L42)
L60	13	SEA FILE=HCAPLUS	SPE=ON	ABB=ON	PLU=ON	L59 AND L14

SEARCH RESULTS

=> d 160 1-13 ibib ed abs hitstr hitind

L60 ANSWER 1 OF 13 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:589058 HCAPLUS Full-text
 DOCUMENT NUMBER: 143:98588
 TITLE: Poly(p-xylylene) with good heat stability and
 heat stability improvement method of their
 derivative ~~films~~
 INVENTOR(S): Maruyama, Hiroshi; Mochizuki, Tsutomu; Inoue,
 Takashi
 PATENT ASSIGNEE(S): Daisankasei Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: ~~Patent~~
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
WO 2005061576	A1	20050707	WO 2003-JP16371	2003 1219

<--

W: CA, CN, KR, SG, US
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR,
 HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR
 EP 1700876 A1 20060913 EP 2003-780945
 2003
1219

<--

EP 1700876	B1	20080813		
R: CH, DE, FR, GB, IT, LI				
CN 1910216	A	20070207	CN 2003-80111049	2003 1219

<--

KR 2007009545	A	20070118	KR 2006-714497	2006 0719
---------------	---	----------	----------------	--------------

<--

US 20070105997	A1	20070510	US 2006-596589	2006 0725
----------------	----	----------	----------------	--------------

<--

PRIORITY APPLN. INFO.:	WO 2003-JP16371	W	2003 1219
------------------------	-----------------	---	--------------

<--

ED Entered STN: 08 Jul 2005
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
 *

AB Title poly(p-xylylene) or their derivative I comprises (2.2)-p-cyclophane II and amino-(2.2)-p-cyclophane III, wherein the ~~films~~ of poly(p-xylylene) or derivs. are formed by chemical deposition method which the ~~heat resistance~~ of the ~~films~~ can be improved without impairing the deposition properties or the economic efficiency, wherein X1, X2 = H, lower alkyl, or halogen; X3 = H or lower alkyl; Y1, Y2 = H or amino except Y1 = Y2

10/596,589-300388-EIC SEARCH

= H; and n = d.p. Thus, 8 g (2.2)-p-cyclophane was stirred in the presence of methanesulfonic acid and fuming nitric acid at 5° and reduced to give monoamino-(2.2)-p-cyclophane, 5 parts of which was mixed with 95 parts (2.2)-p-cyclophane and vapor-deposited to give a film with good heat resistance.

IT 857089-05-5P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(intermediate in monomer preparation; poly(p-xylylene) with good heat stability and heat stability improvement method of their derivative films)

RN 857089-05-5 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene, 5,?-dinitro-(9CI) (CA INDEX NAME)



D1-NO2

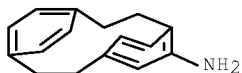
IT 10122-95-9P 669088-63-5P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(monomer; poly(p-xylylene) with good heat stability and heat stability improvement method of their derivative films)

RN 10122-95-9 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine (CA INDEX NAME)



RN 669088-63-5 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,?-diamine (9CI) (CA INDEX NAME)



D1-NH2

IT 857082-28-1P 857089-06-6P 857089-07-7P
857089-08-8P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(poly(p-xylylene) with good heat stability and heat stability improvement method of their derivative films)

RN 857082-28-1 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,

10/596,589-300388-EIC SEARCH

polymer with tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene
(CA INDEX NAME)

CM 1

CRN 10122-95-9

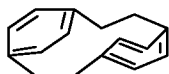
CMF C16 H17 N



CM 2

CRN 1633-22-3

CMF C16 H16



RN 857089-06-6 HCAPLUS

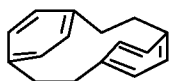
CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
polymer with dichlorotricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-
hexaene (9CI) (CA INDEX NAME)

CM 1

CRN 28804-46-8

CMF C16 H14 Cl2

CCI IDS

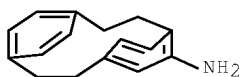


2 (D1—Cl)

CM 2

CRN 10122-95-9

CMF C16 H17 N

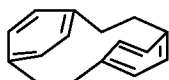


10/596,589-300388-EIC SEARCH

RN 857089-07-7 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
 polymer with tetrachlorotricyclo[8.2.2.24,7]hexadeca-
 4,6,10,12,13,15-hexaene (9CI) (CA INDEX NAME)

CM 1

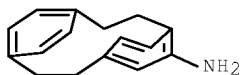
CRN 30501-29-2
 CMF C16 H12 C14
 CCI IDS



4 (D1—C1)

CM 2

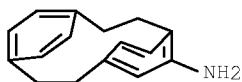
CRN 10122-95-9
 CMF C16 H17 N



RN 857089-08-8 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,?-diamine,
 polymer with dichlorotricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-
 hexaene (9CI) (CA INDEX NAME)

CM 1

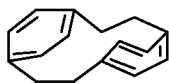
CRN 669088-63-5
 CMF C16 H18 N2
 CCI IDS



D1—NH2

CM 2

CRN 28804-46-8
 CMF C16 H14 C12
 CCI IDS



2 (D1-C1)

IT 1633-22-3, (2.2)-p-Cyclophane
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (poly(p-xylylene) with good heat stability and heat stability
 improvement method of their derivative films)
 RN 1633-22-3 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene (CA INDEX
 NAME)



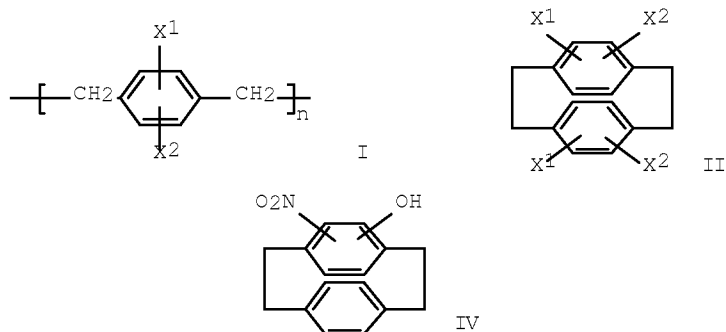
IC ICM C08G061-02
 CC 38-3 (Plastics Fabrication and Uses)
 Section cross-reference(s): 42
 ST Polyxylylene heat stability improvement deriv film;
 aminocyclophane cyclophane copolymer vacuum deposition
 IT Coating materials
 (heat-resistant; poly(p-xylylene) with good
 heat stability and heat stability improvement method of their
 derivative films)
 IT Heat-resistant materials
 Vapor deposition process
 (poly(p-xylylene) with good heat stability and heat stability
 improvement method of their derivative films)
 IT 857089-05-5P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP
 (Preparation); RACT (Reactant or reagent)
 (intermediate in monomer preparation; poly(p-xylylene) with good
 heat stability and heat stability improvement method of their
 derivative films)
 IT 10122-95-9P 669088-63-5P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP
 (Preparation); RACT (Reactant or reagent)
 (monomer; poly(p-xylylene) with good heat stability and heat
 stability improvement method of their derivative films)
 IT 857082-28-1P 857089-06-6P 857089-07-7P
 857089-08-8P
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical
 or engineered material use); PREP (Preparation); USES (Uses)
 (poly(p-xylylene) with good heat stability and heat stability
 improvement method of their derivative films)
 IT 1633-22-3, (2.2)-p-Cyclophane
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (poly(p-xylylene) with good heat stability and heat stability
 improvement method of their derivative films)
 REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

10/596,589-300388-EIC SEARCH

L60 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2004:218784 HCAPLUS Full-text
 DOCUMENT NUMBER: 140:254646
 TITLE: Enhancement of thermal stability of
 poly(p-xylylene) derivative film and
 poly(p-xylylene) derivative
 INVENTOR(S): Maruyama, Hiroshi; Mochizuki, Tsutomu; Inoue,
 Takashi
 PATENT ASSIGNEE(S): Daisan Kasei Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: ~~Patent~~
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE
JP 2004083661	A	20040318	JP 2002-243731	2002 0823
			<--	
JP 3766049	B2	20060412		
JP 2006117952	A	20060511	JP 2005-357939	2005 1212
			<--	
PRIORITY APPLN. INFO.:			JP 2002-243731	A3 2002 0823
			<--	

ED Entered STN: 19 Mar 2004
 GI



AB The poly(p-xylylene) I (X1, X2 = H, lower alkyl, halogen) is manufactured by chemical vapor deposition of (2,2)-p-cyclophane II (X1, X2 are the same as I) containing an amino(2,2)-p-cyclophane II (X1 = H, amino; X2 = H, lower alkyl) so that the film with enhanced thermal stability is obtained. Thus, (2,2)-p-cyclophane (III) was converted into nitro(p-cyclophane) IV and reduced to give monoamino(2,2)-p-cyclophane, 5 parts of which was mixed with 95 parts III and subjected to CVD to give a film showing thermal decomposition temperature 282.7°.

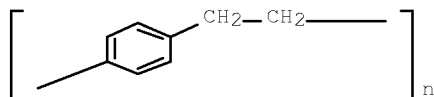
IT 25722-33-2P, Poly(1,4-phenylene-1,2-ethanediyl)
 RL: IMF (Industrial manufacture); TEM (Technical or engineered)

10/596,589-300388-EIC SEARCH

material use); PREP (Preparation); USES (Uses)
 (enhancement of thermal stability of poly(p-xylylene) derivative
 film by using aminocyclophane)

RN 25722-33-2 HCAPLUS

CN Poly(1,4-phenylene-1,2-ethanediyl) (CA INDEX NAME)



IT 10122-95-9 669088-63-5

RL: RCT (Reactant); RACT (Reactant or reagent)
 (monomer; enhancement of thermal stability of poly(p-xylylene)
 derivative film by using)

RN 10122-95-9 HCAPLUS

CN Tricyclo[8.2.2.2.4,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine (CA
 INDEX NAME)



RN 669088-63-5 HCAPLUS

CN Tricyclo[8.2.2.2.4,7]hexadeca-4,6,10,12,13,15-hexaene-5,?-diamine
 (9CI) (CA INDEX NAME)



D1-NH2

IC ICM C08G061-02

ICS C08J005-18; C23C016-44; C07C211-44; C07C211-52; C08L065-04

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 75

ST polyparaxylylene film thermal stability
 enhancement; CVD paracyclophane aminocyclophane
 polyxylylene film

IT Vapor deposition process
 (chemical; enhancement of thermal stability of
 poly(p-xylylene) derivative film obtained by)

IT Heat-resistant materials
 (enhancement of thermal stability of poly(p-xylylene)
 derivative film by using aminocyclophane)

IT 9052-19-1P 25722-33-2P,
 Poly(1,4-phenylene-1,2-ethanediyl) 52261-45-7P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered
 material use); PREP (Preparation); USES (Uses)
 (enhancement of thermal stability of poly(p-xylylene) derivative
 film by using aminocyclophane)

10/596,589-300388-EIC SEARCH

IT 10122-95-9 669088-63-5

RL: RCT (Reactant); RACT (Reactant or reagent)
 (monomer; enhancement of thermal stability of poly(p-xylylene)
 derivative film by using)

L60 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:939711 HCAPLUS Full-text

DOCUMENT NUMBER: 141:131874

TITLE: Poly-p-xylylene derivatives as non-solution
 processible gate dielectric materials for
 organic field effect transistor

AUTHOR(S): Yasuda, Takeshi; Fujita, Katsuhiko; Tsutsui,
 Tetsuo

CORPORATE SOURCE: Department of Applied Science for Electronics
 and Materials, Graduate School of Engineering,
 Kyushu Univ., Fukuoka, 816-8580, Japan

SOURCE: Proceedings of SPIE-The International Society
 for Optical Engineering (2003),
 5217(Organic Field Effect Transistors II),
 202-209

CODEN: PSISDG; ISSN: 0277-786X

PUBLISHER: SPIE-The International Society for Optical
 Engineering

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 03 Dec 2003

AB A flexible insulator film would be one of the most important elements of flexible
 organic field-effect transistors (OFETs). It should be produced from a soft organic
 material rather than a stiff inorg. material. Many polymeric materials were spin-
 coated from the solution and the resulted films have to be baked or cured to obtain a
 good insulator. Since those procedures impose a restriction on the OFETs, a
 fabrication process without using a solvent was desired. Poly-p-xylylene derivs. were
 made into an insulator film by a non-solvent procedure, CVD (CVD). The insulator film
 has addnl. advantages, pinhole-free, resistance to many solvents and no thermal stress
 to a material beneath. We have fabricated and characterized OFETs with the inverted
 staggered geometry, substrate/gate electrode/poly-p-xylylene derivs./organic
 semiconductor/source-drain electrodes. The CVD enables to form an insulator film even
 above the organic semiconductor. We fabricated the staggered type configuration
 substrate/source-drain electrodes/organic semiconductor/poly-chloro-p-xylylene/gate
 electrode. The device performance of a staggered type transistor indicated that the
 mol. arrangement of organic semiconductor at the insulator interface is more dominant
 than the damage or chemical deterioration due to the attack of the radicals during the
 CVD procedure.

IT 9055-85-0 9055-86-1 26591-48-0

161728-02-5 214261-08-2

RL: DEV (Device component use); PEP (Physical, engineering or
 chemical process); PRP (Properties); PYP (Physical process); PROC
 (Process); USES (Uses)

(gate dielec.; poly-p-xylylene derivs. as non-solution processible
 gate dielec. materials for organic FET)

RN 9055-85-0 HCAPLUS

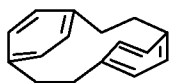
CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
 tetrachloro-, homopolymer (CA INDEX NAME)

CM 1

CRN 30501-29-2

CMF C16 H12 Cl4

CCI IDS

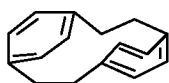


4 (D1—C1)

RN 9055-86-1 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene, dichloro-,
 homopolymer (CA INDEX NAME)

CM 1

CRN 28804-46-8
 CMF C16 H14 Cl2
 CCI IDS



2 (D1—C1)

RN 26591-48-0 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene, homopolymer
 (CA INDEX NAME)

CM 1

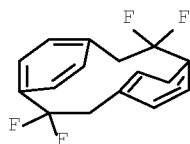
CRN 1633-22-3
 CMF C16 H16



RN 161728-02-5 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
 2,2,8,8-tetrafluoro-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 161728-01-4
 CMF C16 H12 F4



10/596,589-300388-EIC SEARCH

RN 214261-08-2 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
 homopolymer (CA INDEX NAME)

CM 1

CRN 10122-95-9

CMF C16 H17 N



CC 76-3 (Electric Phenomena)
 Section cross-reference(s): 38
 ST polyparaxylylene gate dielec CVD org FET
 IT Vapor deposition process
 (chemical; poly-p-xylylene derivs. as non-solution
 processible gate dielec. materials for organic FET)
 IT Dielectric films
 (poly-p-xylylene derivs. as non-solution processible gate dielec.
 materials for organic FET)
 IT 9052-19-1 9055-85-0 9055-86-1 25722-33-2,
 Poly(1,4-phenylene-1,2-ethanediyl) 26591-48-0
 52261-45-7 161728-03-5 211096-73-0 214261-08-2
 RL: DEV (Device component use); PEP (Physical, engineering or
 chemical process); PRP (Properties); PYP (Physical process); PROC
 (Process); USES (Uses)
 (gate dielec.; poly-p-xylylene derivs. as non-solution processible
 gate dielec. materials for organic FET)
 REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L60 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:904381 HCAPLUS Full-text
 DOCUMENT NUMBER: 138:5248
 TITLE: Vapor-deposited polymer thin film
 and its production, and use as binders for bio
 chips
 INVENTOR(S): Nakamura, Eiichi; Shibayama, Kenichi;
 Maruyama, Hiroshi; Inoue, Takashi
 PATENT ASSIGNEE(S): Kishimoto Sangyo Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 23 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
EP 1260542	A1	20021127	EP 2002-253423	2002 0516

<--

EP 1260542 B1 20070307
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,

10/596,589-300388-EIC SEARCH

MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2003212974 A 20030730 JP 2002-11707

2002
0121

<--

JP 4106215 B2 20080625
US 20030012956 A1 20030116 US 2002-145738

2002
0516

<--

US 6855419 B2 20050215
PRIORITY APPLN. INFO.: JP 2001-146675 A

2001
0516

<--

JP 2002-11707 A

2002
0121

<--

ED Entered STN: 29 Nov 2002

AB This invention provides a polymer thin film which is useful as a substrate for immobilizing a histocompatibility-imparting agent, an immunosuppressive agent, a bioreaction suppressive agent, or the like, and which can be used in imparting biocompatibility; its production method; a binder for a bio chip wherein loss of probe and sample substances in the washing step has been reduced to realize efficient use of such probe and sample; and its production method. In the present invention, the starting material, an amino paracyclophane derivative, is evaporated and heated to decompose the material into monomer form. The material is then introduced into a vacuum deposition chamber maintained at a predetd. degree of vacuum wherein the material is deposited and polymerized on a substrate to obtain the polymer thin film.

IT 1438-68-2P 1908-61-8P 10122-95-9P
10122-96-9P, 4-Nitro-(2,2)-paracyclophane
477211-73-7P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)
(vapor-deposited polymer thin film and its production,
and use as binders for bio chips)

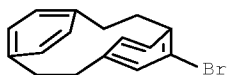
RN 1438-68-2 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-
carbonitrile (CA INDEX NAME)



RN 1908-61-8 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene, 5-bromo-
(CA INDEX NAME)



RN 10122-95-9 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine (CA
INDEX NAME)



RN	10122-96-0	HCAPLUS
CN	Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene, 5-nitro- (CA INDEX NAME)	



RN	477211-73-7	HCAPLUS
CN	Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-methanamine (CA INDEX NAME)	



IT 214261--08--2F 477211--74--8F
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(vapor-deposited polymer thin film and its production, and use as binders for bio chips)

RN	214261-08-2	HCAPLUS
CN	Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine, homopolymer (CA INDEX NAME)	

CM 1

CRN 10122-95-9
CMF C16 H17 N



```
RN 477211-74-8 HCAPLUS
CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-
methanamine, homopolymer (CA INDEX NAME)
```

CM 1

CRN 477211-73-7
CMF C17 H19 N



IT 1633-22-3, [2.2]-Paracyclophane
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (vapor-deposited polymer thin film and its production,
 and use as binders for bio chips)
 RN 1633-22-3 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene (CA INDEX
 NAME)



IC ICM C08J005-18
 ICS C08G061-02; C09D165-04; C12Q001-68; B05D007-24
 ICA C08L065-04
 CC 38-3 (Plastics Fabrication and Uses)
 IT Vapor deposition process
 (vacuum; vapor-deposited polymer thin film and its
 production, and use as binders for bio chips)
 IT Binders
 Microarray technology
 Polymerization
 (vapor-deposited polymer thin film and its production,
 and use as binders for bio chips)
 IT Probes (nucleic acid)
 RL: DEV (Device component use); USES (Uses)
 (vapor-deposited polymer thin film and its production,
 and use as binders for bio chips)
 IT 1438-68-2F 1908-61-8F 10122-95-9F
 10122-96-0F, 4-Nitro-(2,2)-paracyclophane
 477211-73-7F
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP
 (Preparation); RACT (Reactant or reagent)
 (vapor-deposited polymer thin film and its production,
 and use as binders for bio chips)
 IT 214261-08-2F 477211-74-8F
 RL: IMF (Industrial manufacture); TEM (Technical or engineered
 material use); PREP (Preparation); USES (Uses)
 (vapor-deposited polymer thin film and its production,
 and use as binders for bio chips)
 IT 1633-22-3, [2.2]-Paracyclophane 39377-49-6, Copper
 cyanide
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (vapor-deposited polymer thin film and its production,
 and use as binders for bio chips)
 REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L60 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:285422 HCAPLUS Full-text
 DOCUMENT NUMBER: 137:20931
 TITLE: Novel Poly(p-xylylenes): Thin Films
 with Tailored Chemical and Optical Properties
 AUTHOR(S): Lahann, J.; Langer, R.

10/596,589-300388-EIC SEARCH

CORPORATE SOURCE: Department of Chemical Engineering,
Massachusetts Institute of Technology,
Cambridge, MA, 02139, USA
SOURCE: Macromolecules (2002), 35(11),
4380-4386
CODEN: MAMOBX; ISSN: 0024-9297
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

ED Entered STN: 17 Apr 2002

AB Chemical vapor deposition polymerization is used to prepare submicron thin films of poly(p-xylylenes) with distinct chemical and optical properties. The polymers are prepared from 13 different [2.2]paracyclophanes with variable degrees of substitution and functionalities including hydroxy, methoxy, amino, triflate, or trifluoroacetyl groups. The chemical composition of the poly(p-xylylenes) is in good accordance with expected chemical structures as confirmed by XPS, microanal., and reflection-absorption IR spectroscopy. For all polymers, basic optical properties, such as extraordinary and ordinary indexes of refraction, are reported and reveal optical anisotropy of the coatings. Exptl. data correlate well with data generated by a uniaxial Cauchy dispersion model. Furthermore, a distinct correlation between refractive indexes and the electronic properties of the functional groups is observed. Similarly, optical birefringence depends on the nature of the functional group as significant variation in optical birefringence was found among the reported poly(p-xylylenes).

IT 10122-96-0P 18931-39-0P 24262-13-3P
98338-98-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(intermediate; preparation of novel poly(p-xylylenes) thin
films with tailored chemical and optical properties)

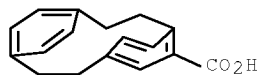
RN 10122-96-0 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene, 5-nitro-
(CA INDEX NAME)



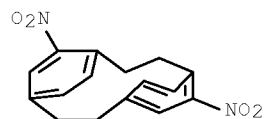
RN 18931-39-0 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-carboxylic
acid (CA INDEX NAME)



RN 24262-13-3 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
5,12-dinitro- (CA INDEX NAME)



10/596,589-300388-EIC SEARCH

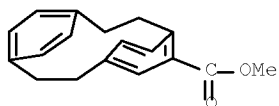
RN 98338-98-8 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-methanol
 (CA INDEX NAME)



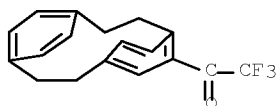
IT 1633-22-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (monomer; preparation of novel poly(p-xylylenes) thin films
 with tailored chemical and optical properties)
 RN 1633-22-3 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene (CA INDEX
 NAME)



IT 10029-01-3P 138199-88-9P 147049-46-5P
 435346-95-5P 435346-96-6P 435346-97-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (monomer; preparation of novel poly(p-xylylenes) thin films
 with tailored chemical and optical properties)
 RN 10029-01-3 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-carboxylic
 acid, methyl ester (8CI, 9CI) (CA INDEX NAME)



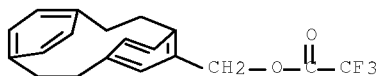
RN 138199-88-9 HCAPLUS
 CN Ethanone, 2,2,2-trifluoro-1-tricyclo[8.2.2.24,7]hexadeca-
 4,6,10,12,13,15-hexaen-5-yl- (CA INDEX NAME)



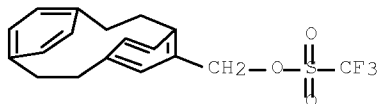
RN 147049-46-5 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-methanol,
 5-acetate (CA INDEX NAME)



RN 435346-95-5 HCAPLUS
 CN Acetic acid, 2,2,2-trifluoro-,
 tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-ylmethyl
 ester (CA INDEX NAME)



RN 435346-96-6 HCAPLUS
 CN Methanesulfonic acid, 1,1,1-trifluoro-,
 tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-ylmethyl
 ester (CA INDEX NAME)



RN 435346-97-7 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
 5-(methoxymethyl)- (CA INDEX NAME)



IT 26591-48-0P 29566-67-4P 214261-06-0P
 214261-08-2P 214261-10-6P 374668-24-3P
 435346-99-9P 435347-00-5P 435347-01-6P
 435347-03-8P 435347-04-9P 435347-05-0P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP
 (Preparation)
 (preparation of novel poly(p-xylylenes) thin films with
 tailored chemical and optical properties)
 RN 26591-48-0 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene, homopolymer
 (CA INDEX NAME)

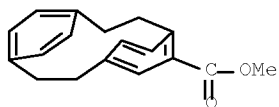
CM 1

CRN 1633-22-3

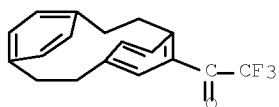
CMF C16 H16



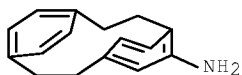
RN 29566-67-4 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-carboxylic acid, methyl ester, homopolymer (9CI) (CA INDEX NAME)
 CM 1
 CRN 10029-01-3
 CMF C18 H18 O2



RN 214261-06-0 HCAPLUS
 CN Ethanone, 2,2,2-trifluoro-1-tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-yl-, homopolymer (CA INDEX NAME)
 CM 1
 CRN 138199-88-9
 CMF C18 H15 F3 O



RN 214261-08-2 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine, homopolymer (CA INDEX NAME)
 CM 1
 CRN 10122-95-9
 CMF C16 H17 N



RN 214261-10-6 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-methanol, homopolymer (CA INDEX NAME)
 CM 1

10/596,589-300388-EIC SEARCH

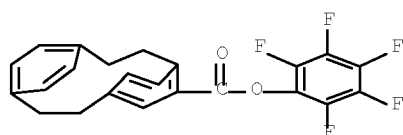
CRN 98338-98-8
CMF C17 H18 O



RN 374668-24-3 HCAPLUS
CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-carboxylic acid, 2,3,4,5,6-pentafluorophenyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 374668-22-1
CMF C23 H15 F5 O2



RN 435346-99-9 HCAPLUS
CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene, 5-(methoxymethyl)-, homopolymer (CA INDEX NAME)

CM 1

CRN 435346-97-7
CMF C18 H20 O



RN 435347-00-5 HCAPLUS
CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-methanol, acetate, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 147049-46-5
CMF C19 H20 O2



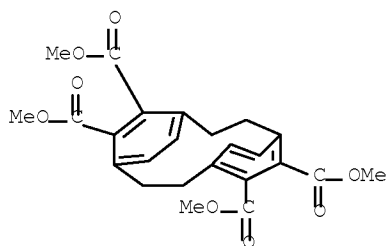
10/596,589-300388-EIC SEARCH

RN 435347-01-6 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,6,11,12-tetracarboxylic acid, tetramethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 73803-20-0

CMF C24 H24 O8

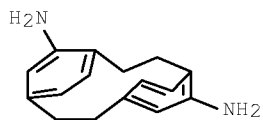


RN 435347-03-8 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,12-diamine, stereoisomer, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 78655-01-3

CMF C16 H18 N2

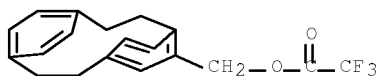


RN 435347-04-9 HCAPLUS
 CN Acetic acid, trifluoro-, tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-ylmethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 435346-95-5

CMF C19 H17 F3 O2

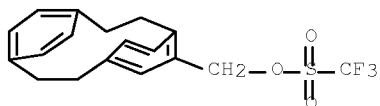


RN 435347-05-0 HCAPLUS
 CN Methanesulfonic acid, trifluoro-, tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-ylmethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 435346-96-6

CMF C18 H17 F3 O3 S



CC 37-3 (Plastics Manufacture and Processing)
Section cross-reference(s): 35, 36, 38, 73

ST polyxylylene thin film prepn paracyclophane chem
vapor deposition polymn; optical chem property
polyxylylene thin film

IT Birefringence
Optical anisotropy
Optical materials
Refractive index
Thickness
(preparation of novel poly(p-xylylenes) thin films with
tailored chemical and optical properties)

IT Poly(arylenealkylenes)
RL: PRP (Properties); SPN (Synthetic preparation); PREP
(Preparation)
(preparation of novel poly(p-xylylenes) thin films with
tailored chemical and optical properties)

IT Glass, uses
RL: NUU (Other use, unclassified); USES (Uses)
(substrate; preparation of novel poly(p-xylylenes) thin
films with tailored chemical and optical properties)

IT Polymerization
(vapor-deposition; preparation of novel poly(p-xylylenes) thin
films with tailored chemical and optical properties)

IT 10122-96-0P 16931-39-0P 24262-13-3P
98238-98-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(intermediate; preparation of novel poly(p-xylylenes) thin
films with tailored chemical and optical properties)

IT 1633-22-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(monomer; preparation of novel poly(p-xylylenes) thin films
with tailored chemical and optical properties)

IT 10029-01-3P 118205-78-0P 138199-88-9P
147049-46-5P 435346-95-5P 435346-96-5P
435346-97-7P 435346-98-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(monomer; preparation of novel poly(p-xylylenes) thin films
with tailored chemical and optical properties)

IT 26591-48-0P 29566-67-4P 214261-06-0P
214261-08-2P 214261-10-6P 214261-12-8P
374668-24-3P 435346-99-9P 435347-00-5P
435347-01-6P 435347-02-7P 435347-03-8P
435347-04-9P 435347-05-0P
RL: PRP (Properties); SPN (Synthetic preparation); PREP
(Preparation)
(preparation of novel poly(p-xylylenes) thin films with
tailored chemical and optical properties)

IT 108-24-7, Acetic anhydride 358-23-6, Triflic anhydride

10/596,589-300388-EIC SEARCH

407-25-0, Trifluoroacetic anhydride 420-37-1, Trimethyloxonium tetrafluoroborate

RL: RCT (Reactant); RACT (Reactant or reagent)

(starting material; preparation of novel poly(p-xylylenes) thin films with tailored chemical and optical properties)

IT 7440-57-5, Gold, uses

RL: NUU (Other use, unclassified); USES (Uses)

(substrate; preparation of novel poly(p-xylylenes) thin films with tailored chemical and optical properties)

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L60 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:158409 HCAPLUS Full-text

DOCUMENT NUMBER: 136:216546

TITLE: Process for the preparation of derivatives of octafluoro-[2,2]paracyclophane

INVENTOR(S): Dolbier, William R.; Duan, Jian-xin; Roche, Alex J.

PATENT ASSIGNEE(S): Specialty Coating Systems, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 16 pp.

CODEN: USXXCO

DOCUMENT TYPE: ~~Patent~~

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

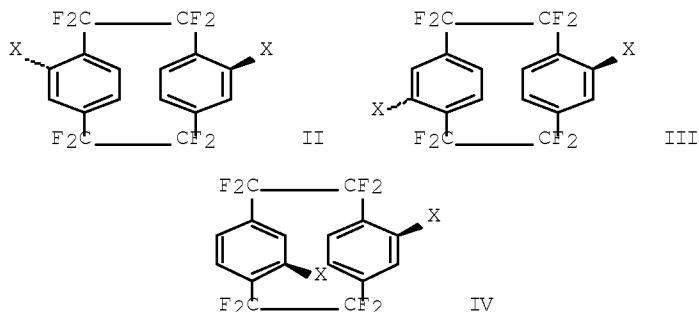
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
US 20020026086	A1	20020228	US 2001-812514	2001 0320
			<--	
US 6392097	B2	20020521		
PRIORITY APPLN. INFO.:			US 2000-190778P	P 2000 0320
			<--	

OTHER SOURCE(S): CASREACT 136:216546; MARPAT 136:216546

ED Entered STN: 01 Mar 2002

GI



AB Processes for the preparation of parylene dimers, and more particularly to processes for the preparation of derivs. of octafluoro-[2,2] paracyclophane (I), otherwise known

10/596,589-300388-EIC SEARCH

as AF4, are disclosed. The processes comprise (1) reacting I with a nitronium reagent to provide dinitro-octafluoro-[2,2]paracyclophane isomers; (2) reducing said dinitro-octafluoro-[2,2]paracyclophane isomers with iron powder in concentrated hydrochloric acid to provide pseudo-meta, pseudo-para and pseudo ortho isomers of diamino-octafluoro-[2,2]paracyclophane in good yield; and (3) reacting said diamino-octafluoro-[2,2]paracyclophane isomers with an aqueous halogen solution to provide pseudo-meta, pseudo-para and pseudo ortho isomers of hetero-annular dihalo-octafluoro-[2,2]paracyclophane in good yield. Octafluoro-[2,2]paracyclophane derivs. (e.g. II, III, and IV; X = NH₂, Br, iodo, NHAc, NHCOCF₃) prepared above are useful as parylene dimers for parylene polymer coating by a well-known vapor deposition process.

IT 299975-22-7P 299975-23-8P 299975-26-1P

RL: BYP (Byproduct); PREP (Preparation)

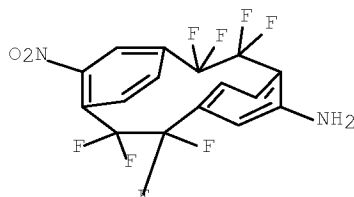
(process for preparation of octafluoro-[2,2]paracyclophane derivs.

by nitration of octafluoro-[2,2]paracyclophane with nitronium

reagent, iron powder reduction, and diazotization-halogenation)

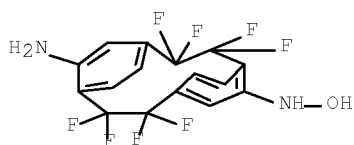
RN 299975-22-7 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
2,2,3,3,8,8,9,9-octafluoro-11-nitro-, stereoisomer (CA INDEX
NAME)



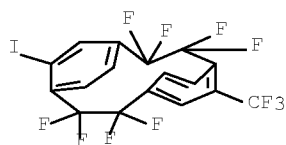
RN 299975-23-8 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,11-diamine,
2,2,3,3,8,8,9,9-octafluoro-N-hydroxy-, stereoisomer (9CI) (CA
INDEX NAME)



RN 299975-26-1 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
2,2,3,3,8,8,9,9-octafluoro-5-iodo-11-(trifluoromethyl)-,
stereoisomer (9CI) (CA INDEX NAME)



IT 3345-29-7, 1,1,2,2,9,9,10,10-Octafluoro[2.2]paracyclophane

RL: RCT (Reactant); RACT (Reactant or reagent)

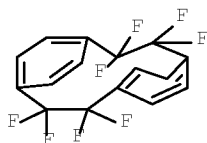
(process for preparation of octafluoro-[2,2]paracyclophane derivs.

10/596,589-300388-EIC SEARCH

by nitration of octafluoro-[2,2]paracyclophane with nitronium reagent, iron powder reduction, and diazotization-halogenation)

RN 3345-29-7 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
2,2,3,3,8,8,9,9-octafluoro- (CA INDEX NAME)

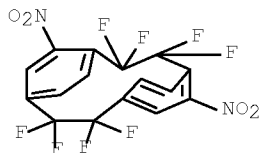


IT 299975-20-5P 299975-21-6P 299975-30-7P
300700-86-1P 300700-89-4P 300700-94-1P
300766-00-1P 300766-01-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(process for preparation of octafluoro-[2,2]paracyclophane derivs.
by nitration of octafluoro-[2,2]paracyclophane with nitronium
reagent, iron powder reduction, and diazotization-halogenation)

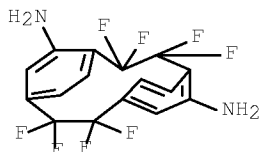
RN 299975-20-5 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
2,2,3,3,8,8,9,9-octafluoro-5,12-dinitro-, stereoisomer (9CI) (CA
INDEX NAME)



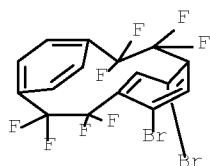
RN 299975-21-6 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,12-diamine,
2,2,3,3,8,8,9,9-octafluoro-, stereoisomer (9CI) (CA INDEX NAME)

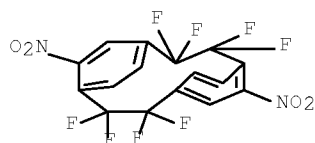


RN 299975-30-7 HCAPLUS

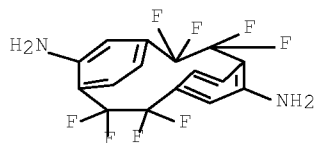
CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
5,6-dibromo-2,2,3,3,8,8,9,9-octafluoro- (CA INDEX NAME)



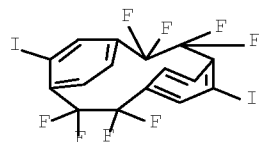
RN 300700-86-1 HCAPLUS
 CN Tricyclo[8.2.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
 2,2,3,3,8,8,9,9-octafluoro-5,11-dinitro-, stereoisomer (9CI) (CA
 INDEX NAME)



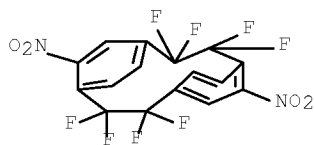
RN 300700-89-4 HCAPLUS
 CN Tricyclo[8.2.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,11-diamine,
 2,2,3,3,8,8,9,9-octafluoro-, stereoisomer (9CI) (CA INDEX NAME)



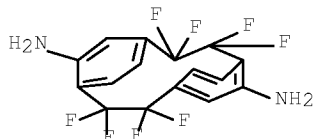
RN 300700-94-1 HCAPLUS
 CN Tricyclo[8.2.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
 2,2,3,3,8,8,9,9-octafluoro-5,11-diiodo-, stereoisomer (9CI) (CA
 INDEX NAME)



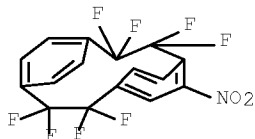
RN 300766-00-1 HCAPLUS
 CN Tricyclo[8.2.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
 2,2,3,3,8,8,9,9-octafluoro-5,11-dinitro-, stereoisomer (9CI) (CA
 INDEX NAME)



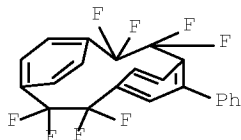
RN 300766-01-2 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,11-diamine,
 2,2,3,3,8,8,9,9-octafluoro-, stereoisomer (9CI) (CA INDEX NAME)



IT 257863-35-7P 257863-43-7P 257863-45-9P
 299975-24-9P 299975-25-0P 299975-27-2P
 299975-28-3P 299975-29-4P 299975-31-8P
 300700-97-4P 300701-00-2P 300701-03-5P
 300766-02-3P 300766-03-4P 300766-04-5P
 300766-05-6P 300766-06-7P 300766-07-8P
 402571-74-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (process for preparation of octafluoro-[2,2]paracyclophane derivs.
 by nitration of octafluoro-[2,2]paracyclophane with nitronium
 reagent, iron powder reduction, and diazotization-halogenation)
 RN 257863-35-7 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
 2,2,3,3,8,8,9,9-octafluoro-5-nitro- (9CI) (CA INDEX NAME)



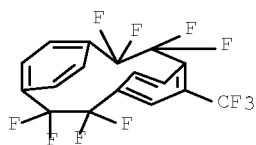
RN 257863-43-7 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
 2,2,3,3,8,8,9,9-octafluoro-5-phenyl- (CA INDEX NAME)



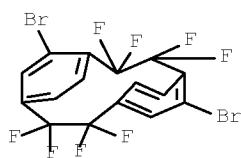
RN 257863-45-9 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,

10/596,589-300388-EIC SEARCH

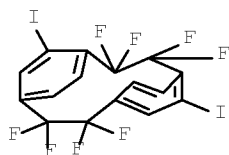
2,2,3,3,8,8,9,9-octafluoro-5-(trifluoromethyl)- (CA INDEX NAME)



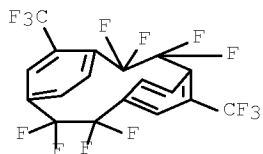
RN 299975-24-9 HCAPLUS
CN Tricyclo[8.2.2.2.4,7]hexadeca-4,6,10,12,13,15-hexaene,
5,12-dibromo-2,2,3,3,8,8,9,9-octafluoro-, stereoisomer (9CI) (CA
INDEX NAME)



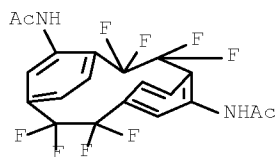
RN 299975-25-0 HCAPLUS
CN Tricyclo[8.2.2.2.4,7]hexadeca-4,6,10,12,13,15-hexaene,
2,2,3,3,8,8,9,9-octafluoro-5,12-diiodo-, stereoisomer (9CI) (CA
INDEX NAME)



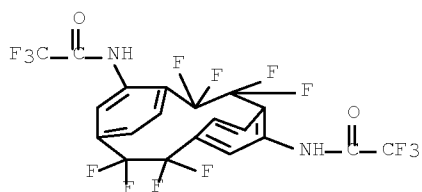
RN 299975-27-2 HCAPLUS
CN Tricyclo[8.2.2.2.4,7]hexadeca-4,6,10,12,13,15-hexaene,
2,2,3,3,8,8,9,9-octafluoro-5,12-bis(trifluoromethyl)-,
stereoisomer (9CI) (CA INDEX NAME)



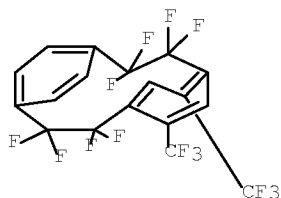
RN 299975-28-3 HCAPLUS
CN Acetamide, N,N'-(2,2,3,3,8,8,9,9-octafluorotricyclo[8.2.2.2.4,7]hexadeca-4,6,10,12,13,15-hexaene-
5,12-diyl)bis-, stereoisomer (9CI) (CA INDEX NAME)



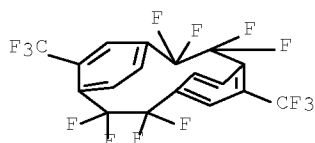
RN 299975-29-4 HCAPLUS
 CN Acetamide, N,N'-(2,2,3,3,8,8,9,9-octafluorotricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,12-diyl)bis[2,2,2-trifluoro-, stereoisomer (9CI) (CA INDEX NAME)



RN 299975-31-8 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene, 2,2,3,3,8,8,9,9-octafluoro-5,6-bis(trifluoromethyl)- (CA INDEX NAME)



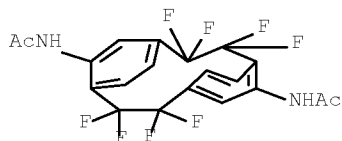
RN 300700-97-4 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene, 2,2,3,3,8,8,9,9-octafluoro-5,11-bis(trifluoromethyl)-, stereoisomer (9CI) (CA INDEX NAME)



RN 300701-00-2 HCAPLUS
 CN Acetamide, N,N'-(2,2,3,3,8,8,9,9-octafluorotricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,12-diyl)bis[2,2,2-trifluoro-, stereoisomer (9CI) (CA INDEX NAME)

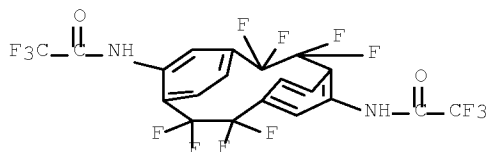
10/596,589-300388-EIC SEARCH

octafluorotricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,12-diyl)bis-, stereoisomer (9CI) (CA INDEX NAME)



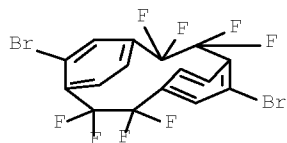
RN 300701-03-5 HCAPLUS

CN Acetamide, N,N'-(2,2,3,3,8,8,9,9-octafluorotricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,12-diyl)bis-, stereoisomer (9CI) (CA INDEX NAME)



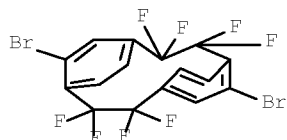
RN 300766-02-3 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene, 5,11-dibromo-2,2,3,3,8,8,9,9-octafluoro-, stereoisomer (9CI) (CA INDEX NAME)



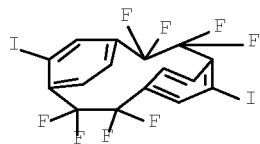
RN 300766-03-4 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene, 5,11-dibromo-2,2,3,3,8,8,9,9-octafluoro-, stereoisomer (9CI) (CA INDEX NAME)



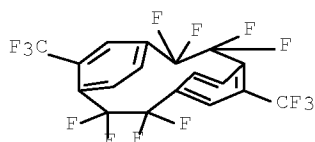
RN 300766-04-5 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene, 2,2,3,3,8,8,9,9-octafluoro-5,11-diiodo-, stereoisomer (9CI) (CA INDEX NAME)



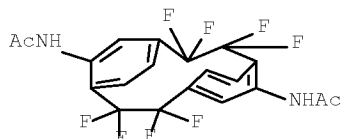
RN 300766-05-6 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
2,2,3,3,8,8,9,9-octafluoro-5,11-bis(trifluoromethyl)-,
stereoisomer (9CI) (CA INDEX NAME)



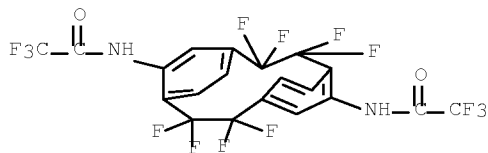
RN 300766-06-7 HCAPLUS

CN Acetamide, N,N'-(2,2,3,3,8,8,9,9-octafluorotricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,11-diyl)bis-, stereoisomer (9CI) (CA INDEX NAME)



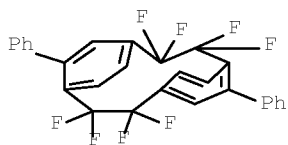
RN 300766-07-8 HCAPLUS

CN Acetamide, N,N'-(2,2,3,3,8,8,9,9-octafluorotricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5,11-diyl)bis[2,2,2-trifluoro-, stereoisomer (9CI) (CA INDEX NAME)



RN 402571-74-8 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene,
2,2,3,3,8,8,9,9-octafluoro-5,11-diphenyl-, stereoisomer (9CI) (CA
INDEX NAME)



IC ICM C07C025-22
 INCL 570151000
 CC 25-29 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 42
 ST octafluoroparacyclophane prepn parylene polymer coating vapor deposition process; haloctafluoroparacyclophane prepn parylene polymer coating vapor deposition process; aminoctafluoroparacyclophane prepn parylene polymer coating vapor deposition process; nitronium reagent nitration octafluoroparacyclophane
 IT Vapor deposition process
 (process for preparation of octafluoro-[2,2]paracyclophane derivs. as parylene dimers for parylene polymer coating by vapor deposition process)
 IT Monomers
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (process for preparation of octafluoro-[2,2]paracyclophane derivs. as parylene dimers for parylene polymer coating by vapor deposition process)
 IT 299975-22-7P 299975-23-8P 299975-26-1P
 RL: BYP (Byproduct); PREP (Preparation)
 (process for preparation of octafluoro-[2,2]paracyclophane derivs. by nitration of octafluoro-[2,2]paracyclophane with nitronium reagent, iron powder reduction, and diazotization-halogenation)
 IT 71-43-2, Benzene, reactions 75-36-5, Acetyl chloride 100-58-3, Phenylmagnesium bromide 128-08-5, N-Bromosuccinimide 407-25-0, Trifluoroacetic anhydride 680-15-9, Methyl (fluorosulfonyl)difluoroacetate 3343-29-7, 1,1,2,2,9,9,10,10-Octafluoro[2,2]paracyclophane 7681-11-0, Potassium iodide, reactions 7787-70-4, Copper(I) bromide 10035-10-6, Hydrobromic acid, reactions 13826-86-3, Nitronium tetrafluoroborate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (process for preparation of octafluoro-[2,2]paracyclophane derivs. by nitration of octafluoro-[2,2]paracyclophane with nitronium reagent, iron powder reduction, and diazotization-halogenation)
 IT 299975-20-5P 299975-21-6P 299975-30-7P
 300700-86-1P 300700-89-4P 300700-94-1P
 300766-00-1P 300766-01-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (process for preparation of octafluoro-[2,2]paracyclophane derivs. by nitration of octafluoro-[2,2]paracyclophane with nitronium reagent, iron powder reduction, and diazotization-halogenation)
 IT 257863-35-7P 257863-43-7P 257863-45-9P
 299975-24-9P 299975-25-0P 299975-27-2P
 299975-28-3P 299975-29-4P 299975-31-8P
 300700-97-4P 300701-00-2P 300701-03-5P
 300766-02-3P 300766-03-4P 300766-04-5P
 300766-05-6P 300766-06-7P 300766-07-8P
 402571-74-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (process for preparation of octafluoro-[2,2]paracyclophane derivs. by nitration of octafluoro-[2,2]paracyclophane with nitronium reagent, iron powder reduction, and diazotization-halogenation)

10/596,589-300388-EIC SEARCH

L60 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2001:127703 HCAPLUS Full-text

DOCUMENT NUMBER: 135:37106

TITLE: Bioactive immobilization of r-hirudin on
CVD-coated metallic implant
devicesAUTHOR(S): Lahann, J.; Klee, D.; Pluester, W.; Hoecker,
H.CORPORATE SOURCE: Department of Macromolecular and Textile
Chemistry, RWTH Aachen, Aachen, 52062, Germany

SOURCE: Biomaterials (2001), 22(8), 817-826

CODEN: BIMADU; ISSN: 0142-9612

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 21 Feb 2001

AB The poor biocompatibility of metallic coronary stents which leads to un-satisfying restenosis rates is mainly caused by contact activation of blood cells, smooth muscle cells and endothelial cells. Mimicking a metal surface with a biocompatible coating that actively suppresses mechanisms leading to restenosis may overcome today's limitations regarding the complications of metal stents. Nitinol coronary stents were coated by CVD polymerization of functionalized [2.2]paracyclophanes. The monomers 4-amino[2.2]paracyclophane, 4-hydroxymethyl[2.2]paracyclophane and [2.2]paracyclophane-4,5,12,13-tetracarboxylic acid dianhydride were previously synthesized. A suitable installation for the CVD polymerization procedure was designed and used for the polymerization procedures. Phys. and chemical properties of the polymers were shown to fulfill the requirements regarding the application as a stent coating material. The functional groups of the polymer coatings were used for the immobilization of the thrombin inhibitor r-hirudin. In vitro results indicate that the bioactively coated stents are less thrombogenic than virgin metallic stents. Surface-bound r-hirudin decreases platelet adhesion drastically due to interactions between platelets and r-hirudin.

IT 214261-08-2P 214261-10-6P

RL: PEP (Physical, engineering or chemical process); PRP

(Properties); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); PROC (Process); USES
(Uses)(bioactive immobilization of r-hirudin on CVD-
coated metallic implant devices)

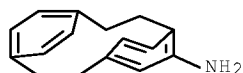
RN 214261-08-2 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
homopolymer (CA INDEX NAME)

CM 1

CRN 10122-95-9

CMF C16 H17 N



RN 214261-10-6 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-methanol,
homopolymer (CA INDEX NAME)

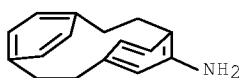
CM 1

CRN 98338-98-8

CMF C17 H18 O



IT 10122-95-9P 98338-98-8P
 RL: PEP (Physical, engineering or chemical process); RCT
 (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC
 (Process); RACT (Reactant or reagent)
 (bioactive immobilization of r-hirudin on CVD-
 coated metallic implant devices)
 RN 10122-95-9 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine (CA
 INDEX NAME)



RN 98338-98-8 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-methanol
 (CA INDEX NAME)



CC 63-7 (Pharmaceuticals)
 ST hirudin immobilization CVD coated metal
 implant; paracyclophane polymn hirudin immobilization metal
 implant
 IT Immobilization, biochemical
 (bioactive immobilization of r-hirudin on CVD-
 coated metallic implant devices)
 IT Polymerization
 (chemical vapor deposition;
 bioactive immobilization of r-hirudin on CVD-
 coated metallic implant devices)
 IT Vapor deposition process
 (chemical; bioactive immobilization of r-hirudin on
 CVD-coated metallic implant devices)
 IT Artery, disease
 (coronary, restenosis; bioactive immobilization of r-hirudin on
 CVD-coated metallic implant devices)
 IT Prosthetic materials and Prosthetics
 (implants; bioactive immobilization of r-hirudin on CVD
 -coated metallic implant devices)
 IT Medical goods
 (stents, coronary; bioactive immobilization of r-hirudin on
 CVD-coated metallic implant devices)
 IT 12597-68-1, stainless steel, biological studies 52013-44-2
 RL: DEV (Device component use); PEP (Physical, engineering or
 chemical process); THU (Therapeutic use); BIOL (Biological study);
 PROC (Process); USES (Uses)
 (bioactive immobilization of r-hirudin on CVD-

10/596,589-300388-EIC SEARCH

coated metallic implant devices)
 IT 214261-08-2P 214261-10-6P 214261-12-8P
 RL: PEP (Physical, engineering or chemical process); PRP
 (Properties); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); PROC (Process); USES
 (Uses)
 (bioactive immobilization of r-hirudin on CVD-
 coated metallic implant devices)
 IT 10122-95-9P 98338-98-8P 118205-78-0P
 RL: PEP (Physical, engineering or chemical process); RCT
 (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC
 (Process); RACT (Reactant or reagent)
 (bioactive immobilization of r-hirudin on CVD-
 coated metallic implant devices)
 IT 8001-27-2, Hirudin
 RL: PEP (Physical, engineering or chemical process); THU
 (Therapeutic use); BIOL (Biological study); PROC (Process); USES
 (Uses)
 (bioactive immobilization of r-hirudin on CVD-
 coated metallic implant devices)
 REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L60 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2000:12891 HCAPLUS Full-text
 DOCUMENT NUMBER: 132:227379
 TITLE: CVD-polymerization of a
 functionalized poly(p-xylylene). A generally
 applicable method for the immobilization of
 drugs on medical implants
 AUTHOR(S): Lahann, Jorg; Klee, D.; Hocker, H.
 CORPORATE SOURCE: Dep. Chemical Engineering, MIT, Cambridge, MA,
 02139, USA
 SOURCE: Materialwissenschaft und Werkstofftechnik (
 1999), 30(12), 763-766
 CODEN: MATWER; ISSN: 0933-5137
 PUBLISHER: Wiley-VCH Verlag GmbH
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 ED Entered STN: 06 Jan 2000

AB The authors report a generally applicable polymer coating that allows 1-step coating
 and functionalization of implant materials as stainless steel, platinum, or Nitinol
 alloys. Coating is achieved by CVD-polymerization of a functionalized [2.2]-
 paracyclophane. Poly(amino-p-xylylene)-co-poly(p-xylylene) interfaces include free
 functional groups that were used for immobilization of the thrombin inhibitor r-
 hirudin. These bio-active surfaces might contribute to the development of stents with
 reduced restenosis.
 IT 1633-22-3, [2.2]-Paracyclophane 214261-08-2
 RL: BSU (Biological study, unclassified); PEP (Physical,
 engineering or chemical process); PRP (Properties); BIOL
 (Biological study); PROC (Process)
 (CVD-polymerization of a functionalized poly(p-xylylene))
 RN 1633-22-3 HCAPLUS
 CN Tricyclo[8.2.2.2.4,7]hexadeca-4,6,10,12,13,15-hexaene (CA INDEX
 NAME)



RN 214261-08-2 HCAPLUS

10/596,589-300388-EIC SEARCH

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
homopolymer (CA INDEX NAME)

CM 1

CRN 10122-95-9

CMF C16 H17 N



CC 63-7 (Pharmaceuticals)
ST CVD polymn aminoparacyclophane surface medical implant
IT Coating materials
Polymerization
(CVD-polymerization of a functionalized poly(p-xylylene))
IT Biopolymers
RL: BSU (Biological study, unclassified); PEP (Physical,
engineering or chemical process); PRP (Properties); BIOL
(Biological study); PROC (Process)
(CVD-polymerization of a functionalized poly(p-xylylene))
IT Vapor deposition process
(chemical; CVD-polymerization of a functionalized
poly(p-xylylene))
IT Prosthetic materials and Prosthetics
(implants; CVD-polymerization of a functionalized
poly(p-xylylene))
IT Polymer morphology
(surface; CVD-polymerization of a functionalized
poly(p-xylylene))
IT 1633-22-3, [2.2]-Paracyclophane 25722-33-2,
Poly(p-xylylene) 214261-08-2
RL: BSU (Biological study, unclassified); PEP (Physical,
engineering or chemical process); PRP (Properties); BIOL
(Biological study); PROC (Process)
(CVD-polymerization of a functionalized poly(p-xylylene))
IT 106-42-3, p-Xylene, biological studies 8001-27-2, Hirudin
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); BIOL (Biological study)
(CVD-polymerization of a functionalized poly(p-xylylene),
method for the immobilization of drugs on medical implants)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L60 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1999:27743 HCAPLUS Full-text
DOCUMENT NUMBER: 130:86213
TITLE: Stents coated with fluoroalkyl
groups for use in prophylaxis of restenosis
INVENTOR(S): Krause, Werner
PATENT ASSIGNEE(S): Schering A.-G., Germany
SOURCE: PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	

10/596,589-300388-EIC SEARCH

 WO 9858680 A2 19981230 WO 1998-EP3627
1998
0618

<--

WO 9858680 A3 19990527
 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU,
 CZ, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG,
 KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
 MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,
 TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW
 RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU,
 MC, NL, PT, SE
 CA 2294872 A1 19981230 CA 1998-2294872

1998
0618

<--

EP 993308 A2 20000419 EP 1998-936352

1998
0618

<--

EP 993308 B1 20040721
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT, IE, FI
 AU 736188 B2 20010726 AU 1998-85384

1998
0618

<--

NZ 501978 A 20010928 NZ 1998-501978

1998
0618

<--

JP 2002504842 T 20020212 JP 1999-503729

1998
0618

<--

AT 271397 T 20040815 AT 1998-936352

1998
0618

<--

PRIORITY APPLN. INFO.: DE 1997-19727838 A

1997
0624

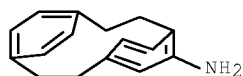
<--

WO 1998-EP3627 W

1998
0618

<--

ED Entered STN: 14 Jan 1999
 AB Metallic or plastic stents are ~~coated~~ with a carrier polymer linked to perfluoroalkyl chains which protrude from the stent surface like a brush. This ~~coating~~ renders the stent biol. inert and prevents foreign-body reactions which might lead to restenosis. Thus, stents were dip-~~coated~~ with a polyurethane prepared from 3,3'-diacetylaminodiphenylmethane-4,4'-diisocyanate and butanediol, from which the Ac protecting groups were removed after polymerization. Free amino groups in the polymer were derivatized by reaction with perfluoropalmitoyl chloride.
 IT 10122-95-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (polymerization and perfluoropalmitoylation of; stents ~~coated~~
 with fluoroalkyl groups for use in prophylaxis of restenosis)
 RN 10122-95-9 HCAPLUS
 CN Tricyclo[8.2.2.2.4,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine (CA
 INDEX NAME)



IC ICM A61L
 CC 63-7 (Pharmaceuticals)
 ST fluoroalkylated polymer coating stent restenosis;
 perfluoroalkylated polymer coating stent restenosis
 IT Lactams
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (N-vinyl, polymers, perfluoroalkylated; stents coated
 with fluoroalkyl groups for use in prophylaxis of restenosis)
 IT Carboxylic acids, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (dicarboxylic, linkers; stents coated with
 fluoroalkyl groups for use in prophylaxis of restenosis)
 IT Polymers, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (graft, perfluoroalkylated; stents coated with
 fluoroalkyl groups for use in prophylaxis of restenosis)
 IT Fluoropolymers, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (graft; stents coated with fluoroalkyl groups for use
 in prophylaxis of restenosis)
 IT Amino acids, biological studies
 Carbohydrates, biological studies
 Nucleotides, biological studies
 Peptides, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (linkers; stents coated with fluoroalkyl groups for
 use in prophylaxis of restenosis)
 IT Acrylic polymers, biological studies
 Polyamides, biological studies
 Polyesters, biological studies
 Polyoxyalkylenes, biological studies
 Polysaccharides, biological studies
 Polysilanes
 Polysiloxanes, biological studies
 Polysulfones, biological studies
 Polyurethanes, biological studies
 Proteins, specific or class
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (perfluoroalkylated; stents coated with fluoroalkyl
 groups for use in prophylaxis of restenosis)
 IT Vapor deposition process
 (plasma; stents coated with fluoroalkyl groups for
 use in prophylaxis of restenosis)
 IT Perfluorocarbons
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (polymers derivatized with; stents coated with
 fluoroalkyl groups for use in prophylaxis of restenosis)
 IT Sulfonates
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (polymers, perfluoroalkylated; stents coated with
 fluoroalkyl groups for use in prophylaxis of restenosis)
 IT Coupling agents
 Vapor deposition process
 (stents coated with fluoroalkyl groups for use in
 prophylaxis of restenosis)
 IT Medical goods
 (stents; stents coated with fluoroalkyl groups for
 use in prophylaxis of restenosis)
 IT 218454-60-5

10/596,589-300388-EIC SEARCH

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (deacetylated, perfluoropalmitoylated; stents ~~coated~~
 with fluoroalkyl groups for use in prophylaxis of restenosis)

IT 10122-95-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (polymerization and perfluoropalmitoylation of; stents ~~coated~~
 with fluoroalkyl groups for use in prophylaxis of restenosis)

IT 218449-00-4 218449-03-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (stents ~~coated~~ with fluoroalkyl groups for use in
 prophylaxis of restenosis)

IT 9002-86-2D, Poly(vinyl chloride), perfluoroalkylated 9002-88-4D,
 Polyethylene, perfluoroalkylated 9003-05-8D, Poly(acrylamide),
 perfluoroalkylated 9003-39-8D, PVP, perfluoroalkylated
 9011-14-7D, Poly(methyl methacrylate), perfluoroalkylated
 25038-59-9D, perfluoroalkylated 25322-68-3D, PEO,
 perfluoroalkylated 25322-69-4D, Poly(propylene oxide),
 perfluoroalkylated 50885-97-7D, Poly(hydroxymethyl
 methacrylate), perfluoroalkylated 218448-96-5D,
 perfluoroalkylated
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (stents ~~coated~~ with fluoroalkyl groups for use in
 prophylaxis of restenosis)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L60 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1998:721607 HCAPLUS Full-text
 DOCUMENT NUMBER: 130:7447
 TITLE: Polymer-~~coated~~ stents for use in
 restenosis prevention
 INVENTOR(S): Krause, Werner; Hoecker, Hartwig; Lahann,
 Joerg; Klee, Doris
 PATENT ASSIGNEE(S): Schering A.-G., Germany
 SOURCE: PCT Int. Appl., 15 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: ~~Patent~~
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9848852	A2	19981105	WO 1998-EP2528	1998 0429
<--				
WO 9848852	A3	19990422		
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19718339	A1	19981112	DE 1997-19718339	1997 0430
<--				
CA 2288163	A1	19981105	CA 1998-2288163	1998 0429
<--				
AU 9880150	A	19981124	AU 1998-80150	1998

10/596,589-300388-EIC SEARCH

0429

AU 742896 B2 20020117 <--
 EP 980274 A2 20000223 EP 1998-928220

1998
 0429

EP 980274 B1 20030514 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT, IE, FI
 NZ 500585 A 20010928 NZ 1998-500585

1998
 0429

JP 2001522282 T 20011113 JP 1998-546608 <--

1998
 0429

AT 240129 T 20030515 AT 1998-928220 <--

1998
 0429

EP 1321155 A2 20030625 EP 2003-90026 <--

1998
 0429

EP 1321155 A3 20031217 <--
 EP 1321155 B1 20080924
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
 MC, PT, IE, FI, CY
 ES 2200351 T3 20040301 ES 1998-928220

1998
 0429

AT 409051 T 20081015 AT 2003-90026 <--

1998
 0429

PRIORITY APPLN. INFO.: DE 1997-19718339 A <--

1997
 0430

EP 1998-928220 A3 <--

1998
 0429

WO 1998-EP2528 W <--

1998
 0429

ED Entered STN: 13 Nov 1998 <--

AB The surface of a stent is coated with a polymer which bears hydrophilic groups with high affinity for therapeutic agents which prevent restenosis, e.g. after balloon angioplasty. The therapeutic agent may be a radioactive metal ion which binds to chelating groups on the polymer, or a drug which forms an inclusion compound with cyclodextrin mols. attached to the polymer. Thus, a stent is dip-coated in a 5% solution of polyurethane in CHCl₃ at room temperature to a thickness of 20 µm, dried, exposed to DTPA monoanhydride which reacts with free amino groups in the polymer, and then exposed to a 188Re salt.

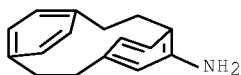
IT 10122-95-9D, polymers

RL: DEV (Device component use); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (polymer-coated stents for use in restenosis prevention)

RN 10122-95-9 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine (CA

INDEX NAME)



IC ICM A61L
 CC 63-7 (Pharmaceuticals)
 ST stent polymer coating restenosis prevention; radioactive
 metal chelate stent restenosis prevention; cyclodextrin compd drug
 stent restenosis prevention
 IT Polyethers, biological studies
 RL: DEV (Device component use); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (amphiphilic, polymers with diphenylmethane diisocyanate and
 butanediol; polymer-coated stents for use in
 restenosis prevention)
 IT Porphyrins
 RL: DEV (Device component use); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (chelating agents; polymer-coated stents for use in
 restenosis prevention)
 IT Vapor deposition process
 (chemical; polymer-coated stents for use in
 restenosis prevention)
 IT Polymers, biological studies
 RL: DEV (Device component use); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (coatings; polymer-coated stents for use in
 restenosis prevention)
 IT Prostaglandins
 RL: BAC (Biological activity or effector, except adverse); BSU
 (Biological study, unclassified); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (compds. with cyclodextrin; polymer-coated stents for
 use in restenosis prevention)
 IT Chelating agents
 Coupling agents
 (polymer-coated stents for use in restenosis
 prevention)
 IT Polyurethanes, biological studies
 RL: DEV (Device component use); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (polymer-coated stents for use in restenosis
 prevention)
 IT Films
 (polymeric; polymer-coated stents for use in
 restenosis prevention)
 IT Artery, disease
 (restenosis; polymer-coated stents for use in
 restenosis prevention)
 IT Medical goods
 (stents; polymer-coated stents for use in restenosis
 prevention)
 IT 67-43-6 869-52-3, TTHA 60239-18-1, DOTA 67279-83-8
 113786-33-7, BOPTA 119895-95-3 129009-83-2 149440-35-7, DO3A
 215650-39-8 215650-40-1 215650-41-2 215650-42-3
 RL: DEV (Device component use); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (chelating agent; polymer-coated stents for use in
 restenosis prevention)
 IT 822-06-0

10/596,589-300388-EIC SEARCH

RL: RCT (Reactant); RACT (Reactant or reagent)
(linker; polymer-coated stents for use in restenosis prevention)

IT 7439-88-5D, Iridium, radioisotopes, biological studies
7439-89-6D, Iron, radioisotopes, biological studies 7439-92-1D,
Lead, radioisotopes, biological studies 7439-94-3D, Lutetium,
radioisotopes, biological studies 7439-96-5D, Manganese,
radioisotopes, biological studies 7439-97-6D, Mercury,
radioisotopes, biological studies 7440-05-3D, Palladium,
radioisotopes, biological studies 7440-12-2D, Promethium,
radioisotopes, biological studies 7440-15-5D, Rhenium,
radioisotopes, biological studies 7440-18-8D, Ruthenium,
radioisotopes, biological studies 7440-19-9D, Samarium,
radioisotopes, biological studies 7440-20-2D, Scandium,
radioisotopes, biological studies 7440-22-4D, Silver,
radioisotopes, biological studies 7440-26-8D, Technetium,
radioisotopes, biological studies 7440-27-9D, Terbium,
radioisotopes, biological studies 7440-36-0D, Antimony,
radioisotopes, biological studies 7440-39-3D, Barium,
radioisotopes, biological studies 7440-47-3D, Chromium,
radioisotopes, biological studies 7440-48-4D, Cobalt,
radioisotopes, biological studies 7440-50-8D, Copper,
radioisotopes, biological studies 7440-54-2D, Gadolinium,
radioisotopes, biological studies 7440-55-3D, Gallium,
radioisotopes, biological studies 7440-57-5D, Gold,
radioisotopes, biological studies 7440-60-0D, Holmium,
radioisotopes, biological studies 7440-65-5D, Yttrium,
radioisotopes, biological studies 7440-69-9D, Bismuth,
radioisotopes, biological studies 7440-74-6D, Indium,
radioisotopes, biological studies 10098-91-6, Yttrium-90,
biological studies 13981-50-5, Cobalt-57, biological studies
13982-25-7, Cobalt-55, biological studies 14119-15-4,
Molybdenum-99, biological studies 14378-26-8, Rhenium-188,
biological studies 14681-59-5, Iron-55, biological studies
14998-63-1, Rhenium-186, biological studies 15750-15-9,
Indium-111, biological studies

RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); DEV (Device component use); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
(polymer-coated stents for use in restenosis prevention)

IT 101-68-8D, Diphenylmethane 4,4'-diisocyanate, polymers with
butanediol and amphiphilic polyether 10122-95-9D,
polymers 12619-70-4D, Cyclodextrin, compds. with prostaglandins
25265-75-2D, Butanediol, polymers with diphenylmethane
diisocyanate and amphiphilic polyether

RL: DEV (Device component use); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(polymer-coated stents for use in restenosis prevention)

IT 106145-40-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(polymer-coated stents for use in restenosis prevention)

IT 52013-44-2, Nitinol

RL: DEV (Device component use); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(stent; polymer-coated stents for use in restenosis prevention)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L60 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1998:596252 HCAPLUS Full-text
DOCUMENT NUMBER: 129:290681
ORIGINAL REFERENCE NO.: 129:59249a,59252a

10/596,589-300388-EIC SEARCH

TITLE: Chemical vapor
deposition polymerization of
substituted [2.2]paracyclophanes

AUTHOR(S): Lahann, Joerg; Klee, Doris; Hoecker, Hartwig

CORPORATE SOURCE: Dep. Macromol. Textile Chem., RWTH, Aachen,
D-52062, Germany

SOURCE: Macromolecular Rapid Communications (
1998), 19(9), 441-444
CODEN: MRCOE3; ISSN: 1022-1336

PUBLISHER: Huethig & Wepf Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 21 Sep 1998

AB Chemical vapor deposition polymerization of substituted [2.2]paracyclophanes is applied
to the functionalized coating of stainless steel surfaces. Poly[o-trifluoroacetyl-p-
xylylene-co-p-xylylene], poly[o-hydroxymethyl-p-xylylene-co-p-xylylene], poly[o-amino-
p-xylylene-co-p-xylylene], and poly(p-xylylene-2,3-dicarboxylic anhydride) were
deposited as thin layer.

IT 214261-06-0P 214261-08-2P 214261-10-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP
(Preparation)
(preparation by chemical vapor deposition
polymerization and characterization of substituted paracyclophane
homopolymers)

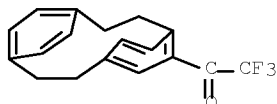
RN 214261-06-0 HCAPLUS

CN Ethanone, 2,2,2-trifluoro-1-tricyclo[8.2.2.24,7]hexadeca-
4,6,10,12,13,15-hexaen-5-yl-, homopolymer (CA INDEX NAME)

CM 1

CRN 138199-88-9

CMF C18 H15 F3 O



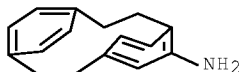
RN 214261-08-2 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
homopolymer (CA INDEX NAME)

CM 1

CRN 10122-95-9

CMF C16 H17 N



RN 214261-10-6 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaene-5-methanol,
homopolymer (CA INDEX NAME)

CM 1

CRN 98338-98-8

CMF C17 H18 O



CC 37-3 (Plastics Manufacture and Processing)
 Section cross-reference(s): 63

ST polyparacyclophane chem vapor
 deposition polymn; paracyclophane deriv polymer
 chem vapor deposition;
 hydroxymethylparacyclophane polymer chem vapor
 deposition; aminoparacyclophane polymer chem
 vapor deposition; fluoroacetylparacyclophane
 polymer chem vapor deposition;
 carboxylic paracyclophane polymer chem vapor
 deposition

IT Poly(arylenealkylenes)
 Poly(arylenealkylenes)
 RL: PRP (Properties); SPN (Synthetic preparation); PREP
 (Preparation)
 (fluorine-containing; preparation by chemical vapor
 deposition polymerization and characterization of substituted
 paracyclophane homopolymers)

IT Fluoropolymers, preparation
 Fluoropolymers, preparation
 RL: PRP (Properties); SPN (Synthetic preparation); PREP
 (Preparation)
 (poly(arylenealkylene)-; preparation by chemical
 vapor deposition polymerization and characterization
 of substituted paracyclophane homopolymers)

IT Poly(arylenealkylenes)
 RL: PRP (Properties); SPN (Synthetic preparation); PREP
 (Preparation)
 (preparation by chemical vapor deposition
 polymerization and characterization of substituted paracyclophane
 homopolymers)

IT 214261-06-0P 214261-08-2P 214261-10-6P
 214261-12-8P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP
 (Preparation)
 (preparation by chemical vapor deposition
 polymerization and characterization of substituted paracyclophane
 homopolymers)

L60 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1997:580859 HCAPLUS Full-text

DOCUMENT NUMBER: 127:181213

ORIGINAL REFERENCE NO.: 127:35035a

TITLE: Antithrombogenic coating for extra-
or intracorporeal medical devicesINVENTOR(S): Hoecker, Hartwig; Lahann, Joerg; Klee, Doris;
Lorenz, Guenter

PATENT ASSIGNEE(S): Hoecker, Hartwig, Germany

SOURCE: Ger. Offen., 6 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

10/596,589-300388-EIC SEARCH

DE 19604173

A1

19970807

DE 1996-19604173

1996

0206

<--

DE 19604173

C2

20000706

DE 1996-19604173

1996

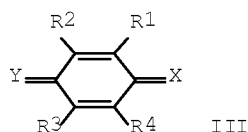
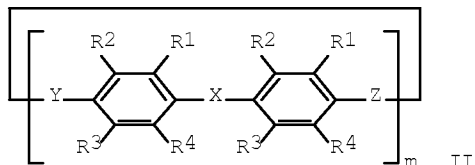
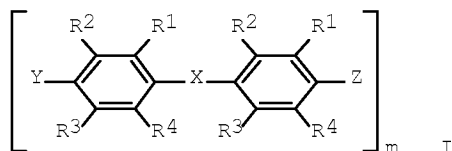
0206

PRIORITY APPLN. INFO.:

<--

ED Entered STN: 12 Sep 1997

GI



AB A functionalized polymer coating with a defined number, distribution, and type of functional groups is produced on a medical device for immobilization of an antithrombogenic agent by vapor-phase polymerization of monomers produced at $>500^\circ$ and <500 Pa by dissociation of linear oligomers I or cyclic oligomers II [R1-R4 = H, halo, (substituted) alkyl or aryl, CO₂H, ester group, OH, NH₂, etc.; X, Y, Z = hydrocarbon group; n = number of repeating units], or polymerization of cyclohexadiene derivs. III, and deposition of the polymer on the device at lower temperature. Thus, [2.2]diaminoparacyclophane was dissociated at 700° and 30 Pa and cooled to 120° for polymerization and deposition on a stainless steel plate. Heparin was then immobilized on the plate, using hexamethylene diisocyanate as coupling agent.

IT 28804-46-8, [2.2]Dichloroparacyclophane
193982-26-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(dissociation of; antithrombogenic coating for extra- or intracorporeal medical devices)

RN 28804-46-8 HCAPLUS

CN Tricyclo[8.2.2.2.4,7]hexadeca-4,6,10,12,13,15-hexaene, dichloro-
(CA INDEX NAME)



2 (D1-C1)

10/596,589-300388-EIC SEARCH

RN 193982-26-2 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaenediamine (9CI)
 (CA INDEX NAME)



2 [D1-NH₂]

IC ICM A61L033-00
 ICA C03C017-32; B05D007-02; C04B041-83; C23C014-12; C08F002-00
 CC 63-8 (Pharmaceuticals)
 ST antithrombogenic coating medical device
 IT Medical goods
 Vapor deposition process
 (antithrombogenic coating for extra- or
 intracorporeal medical devices)
 IT Polymers, preparation
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (antithrombogenic coating for extra- or
 intracorporeal medical devices)
 IT Plasma
 (coating treatment with; antithrombogenic
 coating for extra- or intracorporeal medical devices)
 IT Fibronectins
 RL: DEV (Device component use); RCT (Reactant); THU (Therapeutic
 use); BIOL (Biological study); RACT (Reactant or reagent); USES
 (Uses)
 (immobilization of; antithrombogenic coating for
 extra- or intracorporeal medical devices)
 IT Anticoagulants
 (immobilized; antithrombogenic coating for extra- or
 intracorporeal medical devices)
 IT Immobilization, biochemical
 (of antithrombotic agents; antithrombogenic coating
 for extra- or intracorporeal medical devices)
 IT Aromatic hydrocarbons, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (polymers, dissociation of; antithrombogenic coating for
 extra- or intracorporeal medical devices)
 IT Vinyl compounds, reactions
 RL: DEV (Device component use); RCT (Reactant); RACT (Reactant or
 reagent); USES (Uses)
 (polymers, with aromatic hydrocarbon dissociation products;
 antithrombogenic coating for extra- or intracorporeal
 medical devices)
 IT 108-31-6D, 2,5-Furandione, derivs., polymers with aromatic
 hydrocarbon dissociation products, biological studies
 RL: DEV (Device component use); RCT (Reactant); THU (Therapeutic
 use); BIOL (Biological study); RACT (Reactant or reagent); USES
 (Uses)
 (antithrombogenic coating for extra- or
 intracorporeal medical devices)
 IT 12597-68-1, Stainless steel, biological studies
 RL: DEV (Device component use); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (antithrombogenic coating for extra- or
 intracorporeal medical devices)

10/596,589-300388-EIC SEARCH

IT 628-41-1D, 1,4-Cyclohexadiene, derivs., dissociation of
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (antithrombogenic ~~coating~~ for extra- or
 intracorporeal medical devices)

IT 28804-46-8, [2.2]Dichloroparacyclophane
 193982-26-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (dissociation of; antithrombogenic ~~coating~~ for extra- or
 intracorporeal medical devices)

IT 9005-49-6, Heparin, biological studies
 RL: DEV (Device component use); RCT (Reactant); THU (Therapeutic
 use); BIOL (Biological study); RACT (Reactant or reagent); USES
 (Uses)
 (immobilization of; antithrombogenic ~~coating~~ for
 extra- or intracorporeal medical devices)

IT 7446-09-5, Sulfur dioxide, biological studies
 RL: BUU (Biological use, unclassified); BIOL (Biological study);
 USES (Uses)
 (plasma, ~~coating~~ treatment with; antithrombogenic
~~coating~~ for extra- or intracorporeal medical devices)

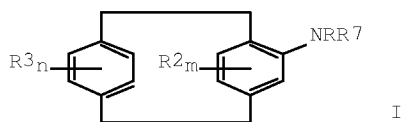
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L60 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1990:641483 HCAPLUS Full-text
 DOCUMENT NUMBER: 113:241483
 ORIGINAL REFERENCE NO.: 113:40523a,40526a
 TITLE: Electrophotographic photoreceptors containing
 [2,2]paracyclophane compound
 INVENTOR(S): Shimada, Tomoyuki; Sasaki, Masaomi; Ariga,
 Tamotsu
 PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: ~~Patent~~
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 02131242	A	19900521	JP 1988-284929	1988 1111
			<--	
JP 2742564	B2	19980422		
US 5098807	A	19920324	US 1989-429482	1989 1031
			<--	
US 5233090	A	19930803	US 1991-788438	1991 1106
			<--	
PRIORITY APPLN. INFO.:			JP 1988-284928	A 1988 1111
			<--	
			JP 1988-284929	A 1988 1111
			<--	
			US 1989-429482	A2 1989 1031

<--

ED Entered STN: 22 Dec 1990
GI



AB The electrophotog. photoreceptors contain [2,2]paracyclophane compound I [R, R1 = (substituted) alkyl, (substituted) aryl; R2, R3 = H, alkyl, alkoxy, halo; m = 1-3; n = 1-4] as a charge-transporting agent. The photoreceptors show good heat resistance and mech. strength. Thus, an Al-deposited polyester support was coated with a composition containing Diane Blue and Vylon 200 and coated with a composition containing I (R, R1 = p-tolyl, R2-3 = H) and Panlite K 1300 to give a photoreceptor showing excellent electrophotog. properties.

IT 130746-04-2 130746-05-3 130746-06-4
130746-07-5 130746-08-6 130746-09-7
130746-10-0 130746-11-1 130746-12-2

RL: USES (Uses)

(charge-transporting agent, for electrophotog. photoconductor)

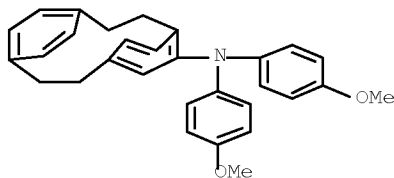
RN 130746-04-2 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
N,N-diphenyl- (CA INDEX NAME)



RN 130746-05-3 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
N,N-bis(4-methoxyphenyl)- (CA INDEX NAME)



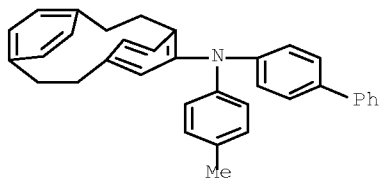
RN 130746-06-4 HCAPLUS

CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
N,N-diethyl- (CA INDEX NAME)

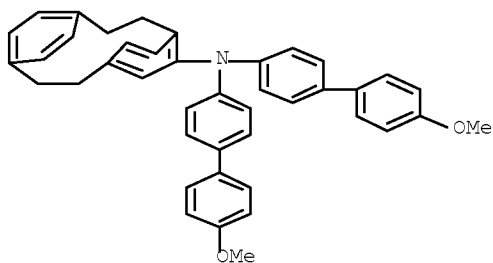


10/596,589-300388-EIC SEARCH

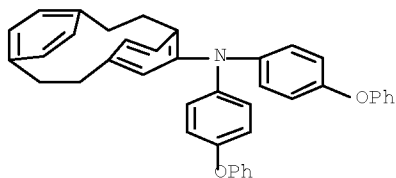
RN 130746-07-5 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
 N-[1,1'-biphenyl]-4-yl-N-(4-methylphenyl)- (CA INDEX NAME)



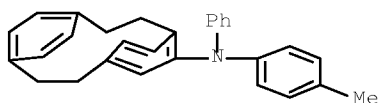
RN 130746-08-6 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
 N,N-bis(4'-methoxy[1,1'-biphenyl]-4-yl)- (CA INDEX NAME)



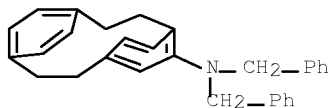
RN 130746-09-7 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
 N,N-bis(4-phenoxyphenyl)- (CA INDEX NAME)



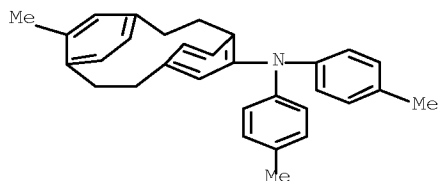
RN 130746-10-0 HCAPLUS
 CN Tricyclo[8.2.2.24,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
 N-(4-methylphenyl)-N-phenyl- (CA INDEX NAME)



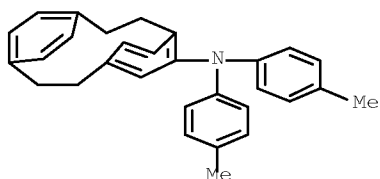
RN 130746-11-1 HCAPLUS
 CN Tricyclo[8.2.2.2.4,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
 N,N-bis(phenylmethyl)- (CA INDEX NAME)



RN 130746-12-2 HCAPLUS
 CN Tricyclo[8.2.2.2.4,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
 14-methyl-N,N-bis(4-methylphenyl)- (CA INDEX NAME)



IT 130746-03-1F
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and use of, as charge-transporting agent, for
 electrophotog. photoconductor)
 RN 130746-03-1 HCAPLUS
 CN Tricyclo[8.2.2.2.4,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine,
 N,N-bis(4-methylphenyl)- (CA INDEX NAME)



IT 10122-95-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, charge-transporting agent from, for
 electrophotog. photoconductor)
 RN 10122-95-9 HCAPLUS
 CN Tricyclo[8.2.2.2.4,7]hexadeca-4,6,10,12,13,15-hexaen-5-amine (CA
 INDEX NAME)



IC ICM G03G005-06
ICS C09K009-02

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and
Other Reprographic Processes)
Section cross-reference(s): 25

IT 130746-04-2 130746-05-3 130746-06-4
130746-07-5 130746-08-6 130746-09-7
130746-10-0 130746-11-1 130746-12-2
RL: USES (Uses)
(charge-transporting agent, for electrophotog. photoconductor)

IT 130746-03-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and use of, as charge-transporting agent, for
electrophotog. photoconductor)

IT 624-31-7 10122-95-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, charge-transporting agent from, for
electrophotog. photoconductor)

FULL SEARCH HISTORY

=> d his nofile

(FILE 'HOME' ENTERED AT 14:28:55 ON 02 JUL 2009)

FILE 'HCAPLUS' ENTERED AT 14:29:02 ON 02 JUL 2009

E US20070105997/PN

L1 1 SEA SPE=ON ABB=ON PLU=ON US20070105997/PN
D ALL
SEL RN

FILE 'REGISTRY' ENTERED AT 14:29:42 ON 02 JUL 2009

L2 8 SEA SPE=ON ABB=ON PLU=ON (10122-95-9/BI OR 1633-22-3
/BI OR 669088-63-5/BI OR 857082-28-1/BI OR 857089-05-5/
BI OR 857089-06-6/BI OR 857089-07-7/BI OR 857089-08-8/B
I)
D SCA

L3 1 SEA SPE=ON ABB=ON PLU=ON L2 AND C16 H16/MF
D SCA
D
D RSD
E 3859.1/RID

L4 4405 SEA SPE=ON ABB=ON PLU=ON 3859.1/RID

L5 8 SEA SPE=ON ABB=ON PLU=ON L2 AND L4

FILE 'LREGISTRY' ENTERED AT 14:35:22 ON 02 JUL 2009

FILE 'REGISTRY' ENTERED AT 14:36:24 ON 02 JUL 2009

L6 283 SEA SPE=ON ABB=ON PLU=ON L4 AND PMS/CI
L7 44 SEA SPE=ON ABB=ON PLU=ON L4 AND IDS/CI
L8 661 SEA SPE=ON ABB=ON PLU=ON L4 AND ?AMIN?/CNS

FILE 'HCAPLUS' ENTERED AT 14:41:21 ON 02 JUL 2009

L9 1824 SEA SPE=ON ABB=ON PLU=ON L4
L10 QUE SPE=ON ABB=ON PLU=ON CVD OR (CHEMICAL? OR
CHEM) (2A) (VAPOR? OR VAPOUR?) (2A) DEPOSIT? OR OMCVD OR
MOCVD OR LPCVD OR PECVD OR HFCVD OR ULPCVD OR PACVD OR
PCVD
L11 119 SEA SPE=ON ABB=ON PLU=ON L9 AND L10
L12 QUE SPE=ON ABB=ON PLU=ON FILM? OR THINFILM? OR
LAYER? OR OVERLAY? OR OVERLAID? OR LAMIN? OR LAMEL? OR
MULTILAYER? OR SHEET? OR LEAF? OR FOIL? OR COAT? OR
TOPCOAT? OR OVERCOAT? OR VENEER? OR SHEATH? OR COVER?
OR ENVELOP? OR ENCASE? OR ENWRAP? OR OVERSPREAD? OR
ENCAPSUL?
L13 105 SEA SPE=ON ABB=ON PLU=ON L11 AND L12
L14 244 SEA SPE=ON ABB=ON PLU=ON L8
L15 20 SEA SPE=ON ABB=ON PLU=ON L13 AND L14
D SCA
L16 0 SEA SPE=ON ABB=ON PLU=ON L1 AND L15
D SCA L1
E "VAPOR DEPOSITION PROCESS"/CT
L17 105890 SEA SPE=ON ABB=ON PLU=ON "VAPOR DEPOSITION PROCESS"/
CT
L18 79 SEA SPE=ON ABB=ON PLU=ON L9 AND L17
L19 1 SEA SPE=ON ABB=ON PLU=ON L1 AND L18
D SCA
L20 543 SEA SPE=ON ABB=ON PLU=ON L9 AND L12
L21 1 SEA SPE=ON ABB=ON PLU=ON L1 AND L20
L22 14 SEA SPE=ON ABB=ON PLU=ON L14 AND L18
L23 QUE SPE=ON ABB=ON PLU=ON INHIBIT? OR HINDER? OR
IMPED? OR ARREST? OR REDUC? OR REDN# OR RESIST? OR
SUPPRESS? OR RETARD? OR PROHIBIT? OR PREVENT? OR
BLOCK? OR ELIMINAT? OR LESS? OR ABAT? OR DEPRESS? OR
DIMINISH? OR CURTAIL? OR ABSEN? OR REMOV? OR REPELL?

10/596,589-300388-EIC SEARCH

```

OR INACTIVAT?
L24      389405 SEA SPE=ON  ABB=ON  PLU=ON  (HEAT OR THERM?) (3A) L23
L25      5 SEA SPE=ON  ABB=ON  PLU=ON  L14 AND L24
L26      2 SEA SPE=ON  ABB=ON  PLU=ON  L25 AND L18
        D SCA
        D QUE
L27      37 SEA SPE=ON  ABB=ON  PLU=ON  L20 AND L24
L28      97969 SEA SPE=ON  ABB=ON  PLU=ON  PYROLYSIS?
L29      140 SEA SPE=ON  ABB=ON  PLU=ON  L9 AND (L10 OR L17)
        D QUE
L30      124 SEA SPE=ON  ABB=ON  PLU=ON  L29 AND L12
L31      13 SEA SPE=ON  ABB=ON  PLU=ON  L30 AND L24
L32      27 SEA SPE=ON  ABB=ON  PLU=ON  L8 AND (L10 OR L17)
L33      25 SEA SPE=ON  ABB=ON  PLU=ON  L32 AND L12
L34      2 SEA SPE=ON  ABB=ON  PLU=ON  L33 AND L24
L35      1 SEA SPE=ON  ABB=ON  PLU=ON  L33 AND L28
        D SCA
        D HITSTR
        D QUE L15
L36      39 SEA SPE=ON  ABB=ON  PLU=ON  L15 OR L22 OR (L25 OR L26)
        OR L31 OR L34 OR L35
L37      62 SEA SPE=ON  ABB=ON  PLU=ON  L27 OR (L31 OR L32 OR L33
        OR L34 OR L35)
L38      62 SEA SPE=ON  ABB=ON  PLU=ON  L37 OR L36
L39      8 SEA SPE=ON  ABB=ON  PLU=ON  L38 AND L28
L40      62 SEA SPE=ON  ABB=ON  PLU=ON  L38 OR L39
L41      QUE SPE=ON  ABB=ON  PLU=ON  PY=<2003 NOT P/DT
L42      QUE SPE=ON  ABB=ON  PLU=ON  (PY=<2003 OR PRY=<2003 OR
        AY=<2003 OR MY=<2003 OR REVIEW/DT) AND P/DT
L43      42 SEA SPE=ON  ABB=ON  PLU=ON  L40 AND (L41 OR L42)
        D SCA L1
L44      47 SEA SPE=ON  ABB=ON  PLU=ON  POLYPARAXYLYL? OR POLY(A) PA
        RAXYLYL?
        D KWIC

```

FILE 'REGISTRY' ENTERED AT 15:04:04 ON 02 JUL 2009

```

        E PARYLENE/CN
L45      1 SEA SPE=ON  ABB=ON  PLU=ON  PARYLENE/CN
L46      90 POLYLINK L45
        E PARACYCLOPHANE/CN
L47      2 SEA SPE=ON  ABB=ON  PLU=ON  ("PARACYCLOPHANE HOMOPOLYME
        R"/CN OR PARACYCLOPHANES/CN)
L48      91 SEA SPE=ON  ABB=ON  PLU=ON  (L45 OR L46 OR L47)
L49      91 SEA SPE=ON  ABB=ON  PLU=ON  (L45 OR L46 OR L47 OR L48)

```

FILE 'HCAPLUS' ENTERED AT 15:10:04 ON 02 JUL 2009

```

L50      6693 SEA SPE=ON  ABB=ON  PLU=ON  L49
L51      552 SEA SPE=ON  ABB=ON  PLU=ON  L50 AND (L10 OR L17)
L52      513 SEA SPE=ON  ABB=ON  PLU=ON  L51 AND L12
L53      9 SEA SPE=ON  ABB=ON  PLU=ON  L52 AND L24
L54      17 SEA SPE=ON  ABB=ON  PLU=ON  L52 AND L28
L55      25 SEA SPE=ON  ABB=ON  PLU=ON  L53 OR L54
L56      5 SEA SPE=ON  ABB=ON  PLU=ON  L55 AND (L42 OR L42)
        D QUE L44
L57      1 SEA SPE=ON  ABB=ON  PLU=ON  L44 AND (L10 OR L17) AND
        L12 AND (L24 OR L28)
L58      45 SEA SPE=ON  ABB=ON  PLU=ON  L43 OR L57 OR L56
        DEL SEL
        SEL L58 HIT RN
L59      45 SEA SPE=ON  ABB=ON  PLU=ON  L58 AND (L41 OR L42)
L60      13 SEA SPE=ON  ABB=ON  PLU=ON  L59 AND L14
        SAV TEMP L60 FAN589HCP/A
        D SAV
        D QUE STAT L60
        D L60 1-13 IBIB ED ABS HITSTR HITIND

```